

Patent Claims

1. A method for transforming a picture area,
in which, depending on a decision unit, firstly a
5 vertical transformation of the picture area and
then a horizontal transformation of the picture
area or, conversely, firstly the horizontal
transformation and then the vertical
transformation are carried out.
- 10 2. The method as claimed in claim 1,
in which the picture area has an irregular
structure.
- 15 3. The method as claimed in claim 1 or 2,
a) in which, before or after the vertical
transformation, the picture area is oriented
along a horizontal line;
b) in which, before or after the horizontal
20 transformation, the picture area is oriented
along a vertical line.
- 25 4. The method as claimed in one of claims 1 to 3,
in which at least one of the following mechanisms
is carried out by the decision unit:
a) if the picture area is present in the line
interlacing method, firstly the horizontal
and then the vertical transformation is
carried out;
30 b) that (horizontal or vertical) transformation
is carried out first along which a
correlation of pixels of the picture area is
stronger.
- 35 5. The method as claimed in one of the preceding
claims,
in which an additional dimension is taken into
account in the transformation.

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6. The method as claimed in claim 5,
in which the additional transformation is carried
out along a time dimension.
- 5 7. The method as claimed in one of the preceding
claims,
in which a side information item containing the
order of the transformations is generated by the
decision unit.
- 10 8. The method as claimed in one of the preceding
claims,
in which the horizontal transformation follows
from the vertical transformation in that mirroring
15 on a 45-degree axis is carried out before the
transformation.
- 20 9. The method as claimed in one of the preceding
claims,
in which the vertical transformation follows from
the horizontal transformation in that mirroring on
a 45-degree axis is carried out before the
transformation.
- 25 10. The method as claimed in one of the preceding
claims,
for use in a coder for compression of picture
data.
- 30 11. The method as claimed in one of claims 7 to 10,
in which the side information item is used in a
decoder for decompression of the picture area.
- 35 12. The method as claimed in claim 10 or 11,
in which modes of operation of the coder and/or of
the decoder are determined according to an MPEG
standard or according to an H.26x standard.

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13. The method as claimed in one of the preceding claims,
in which the transformation is a DCT transformation or an IDCT transformation which is the inverse thereof.
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14. An arrangement for transforming a picture area,

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5 having a decision unit which is set up in such a way that, depending on a value determined by the decision unit, firstly a vertical transformation of the picture area and then a horizontal transformation of the picture area or, conversely, firstly the horizontal transformation and then the vertical transformation can be carried out.

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